# CPT8200
# ADVANCED RACE TIMER

## USER GUIDE
## V 1.00

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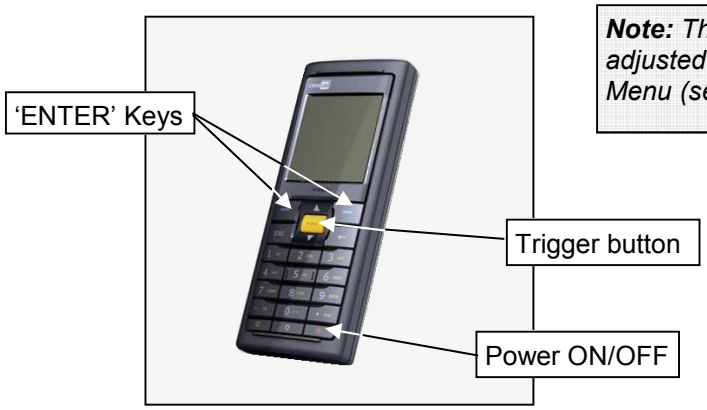
## 1.0 INTRODUCTION

The CPT8200 Advanced RaceTimer is a programmable data collection terminal which has been pre-loaded with the ERS Race timing software application.
This manual describes the operation of the Advanced Race Timer




***Note:*** *The sounder volume can be adjusted from the terminal System Menu (see Appendix C below)*

## 2.0 CPT8200 RACE TIMER SOFTWARE APPLICATION

The Race Timer software for the CPT8200 terminal allows athlete's times to be logged using simple button presses as summarised below.

***Note:*** *RaceTime supports numerous event types. The operation of the Timer will be the same for all event types*

From initial power on the timer will display the Main Menu from which the operator may select:

1. Main Timer function
2. Send Data function (used when sending the timing data to the RaceTime PC)
3. Initialize function (used to synchronise the timer with the PC real time clock)
4. Settings (Engineering options. Not normally used)
5. About (Displays program version)

### 2.1 Initializing the Timer

Before each event we recommend initialising all timer and scanner devices and synchronising to the PC real-time clock.
This ensures the devices are cleared of data and that all clocks are synchronised.
To initialise the CPT8200 timer:

- From the RaceTime software on the PC go to Event >> Initialise Devices to start the initialization process
- Select menu Option 3 (Initialize) from the Main menu on the Timer and connect to the RaceTime PC
- On completion of the initialisation press any key on the CPT8200 timer to return to the Main Menu. The device has been cleared and synchronised to the PC clock.

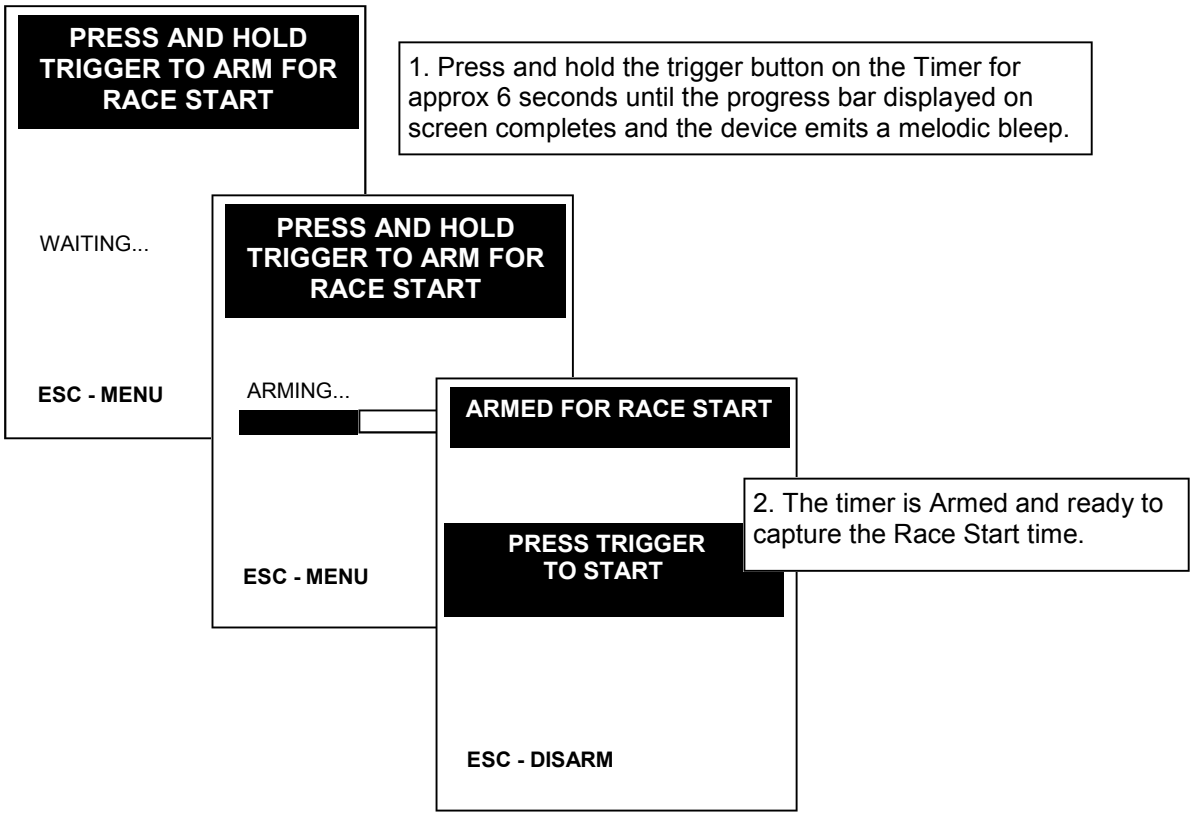
## 2.2 Using the Timer

The operation of the CPT8200 Advanced timer is designed to match with the operation of the OPN2002 Timer.

Thus the device will be initially 'armed' before the event, then used to capture the event start time and the finish times of the competing athletes. At the end of the event the timer will be dis-armed. This operation is summarised below:

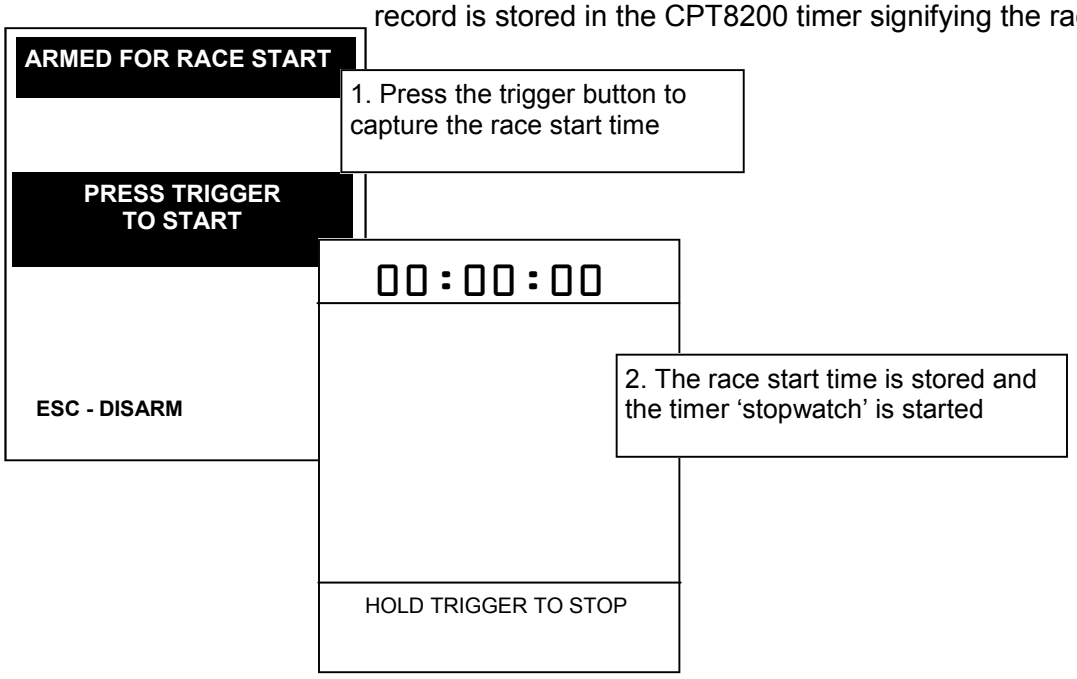
### STEP 1 - ARMING THE TIMER

To arm the CPT8200 and set it ready to log times press select Option 1 (Timer) from the main menu and proceed as follows:



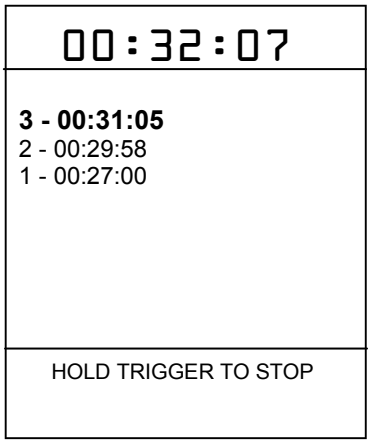

### STEP 2 - STARTING THE RACE

To capture the race start time press the trigger at the same time as the starter sets off the race. A record is stored in the CPT8200 timer signifying the race start



## STEP 3 - LOGGING THE ATHLETE FINISH TIMES

To store the position and associated finish time for each athlete press and release the trigger button once for each runner crossing the finish line. The data collector will beep and store the position (starting at Position 1) and the associated time.




1. Press the trigger to record each finishing athlete.

The display shows the finishing position order and time for the most recent 10 athletes in reverse order (ie: most recent finishing athlete shown highlighted at the top of the list).

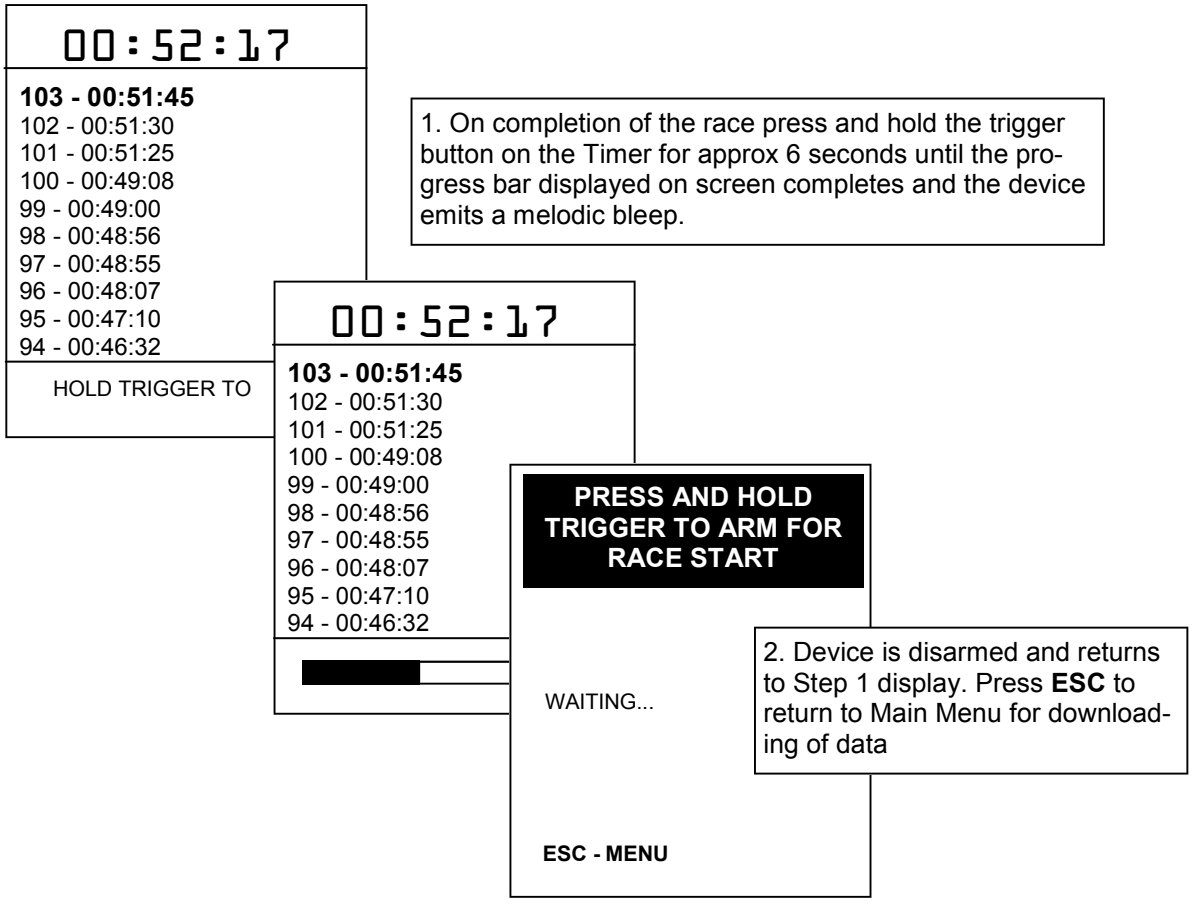
Thus the example shown here indicates that 3 athletes have so far completed the race.

**Note:** The finishing position order displayed on the Timer only relates to the Athlete's final race position in the case of a 'Mass Start' event.

For Group and Individual start events the Athlete's final race position will depend not only on the order in which they finished, but also the order/time in which they started.

## STEP 4 - END THE EVENT/ DISARMING THE TIMER

On completion of the event the Timer will be disarmed as follows:

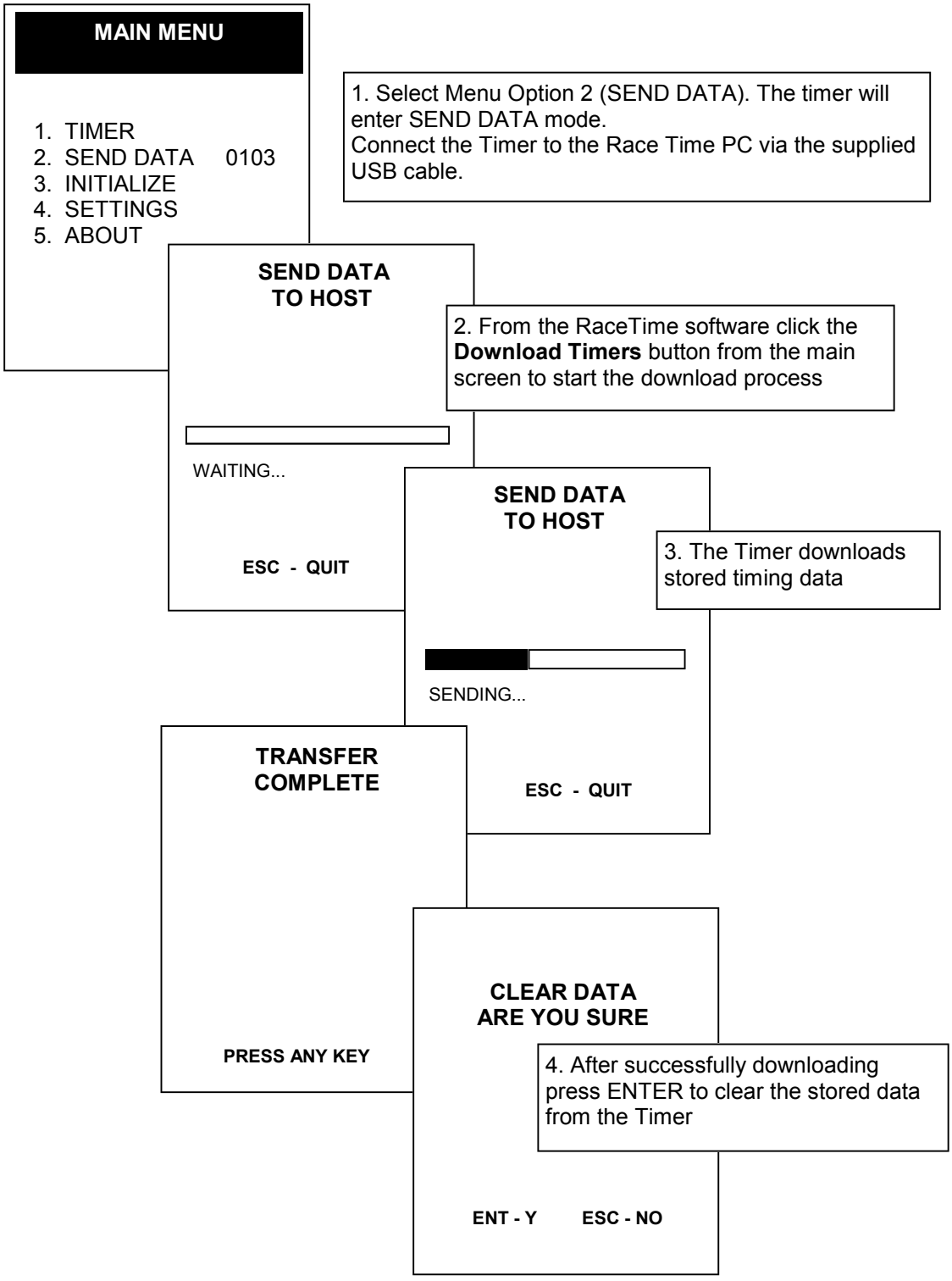



1. On completion of the race press and hold the trigger button on the Timer for approx 6 seconds until the progress bar displayed on screen completes and the device emits a melodic bleep.

2. Device is disarmed and returns to Step 1 display. Press **ESC** to return to Main Menu for downloading of data

## 2.3 Downloading the Timer

Once all times have been collected the stored data will be downloaded to the Race-Time software as follows:



## APPENDIX A. SYNCHRONISING THE CPT8200 INTERNAL CLOCK

When using RaceTime it is important that all scanner and timer devices are time synchronised and cleared before starting any new event.
An initialise facility is included in the RaceTime system software. See relevant User Guide for further details.

To ensure the data collector's internal clock is synchronised to the correct local time we recommend synchronising the CPT8200 to the RaceTime software in the following circumstances:

- On initial delivery
- Before every event
- In the event that the CPT8200 batteries become fully drained
- After adhoc time changes (eg: BST/ daylight saving time in UK etc)

## APPENDIX B. CHARGING THE BATTERY

The CPT8200 batteries will be charged whenever the unit is plugged onto a PC USB port or connected to the terminal charger.

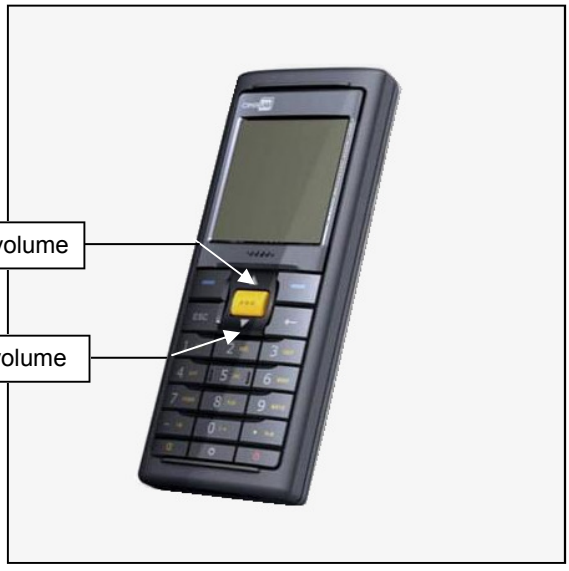
We recommend fully charging the CPT8200 in the following circumstances:

- On initial delivery
- After a period of no use
- Prior to an event

## APPENDIX C. CHANGING THE SPEAKER VOLUME

The speaker volume may be changed from the CPT8200 System menu as follows:

1. Power the terminal off and power on while pressing the 7 and 9 keys. The terminal should boot into the System Menu.
2. Select Menu Option 2 (Settings)
3. Select Menu Option 7 (Speaker Volume)
4. Now use the 4 way navigation pad around the trigger button to increase/ decrease the volume.



## APPENDIX D. TIMER 'SETTINGS' MENU

Option 4 (SETTINGS) from the Timer Menu provides access to various engineering functions. The SETTINGS option is not required during normal operation of the Timer however is summarised here for reference.

To access SETTINGS select Menu Option 4 from the Timer Main Menu and enter the SETTINGS password (Default password = +ERS++)

The following options are available from SETTINGS:

| | |
|---|---|
| **1. SET TIME/ DATE** | The Timer clock will normally be synchronised to the RACETIME PC via the Initialize process (see 2.1 above) and when downloading RaceTime data, however a facility to manually update the Timer clock is provided from SETTINGS |
| **2. CLEAR MEMORY** | The Timer database will automatically be cleared by the Initialize process and after successfully downloading stored RaceTime data. A facility to manually clear the database is also included under SETTINGS to allow adhoc clearing of stored data, if required. |
| **3. MEMORY INFO** | Displays used/ free memory |
| **4. LIST FILES** | Lists data files currently stored on Timer |
| **5. CHANGE PASS** | Allows the SETTINGS Password to be changed |
| **6. ABOUT** | Displays the program version no. for approx 5 seconds (Note: ABOUT is also available from the timer Main Menu) |